

Challenges of the world-wide experimental search for the electric dipole moment of the neutron



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Status of the source for ultracold neutrons (UCN) at the Paul Scherrer Institute

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The UCN source at the Paul Scherrer Institute is in operation since 2011 and providing UCN e.g. to the neutron EDM experiment.

The operation principle of the source and the way of UCN production will be explained. The current status of the source and the progress made since start-up, will be presented, together with ongoing optimizations and measurements to characterize individual subsystems. In addition, comparisons between Monte Carlo Simulations of the full source setup and recent measurements will be shown.

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Summary

Operation principle and status of the PSI source for ultracold neutrons will be presented.

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